



From...



Self Locating Wall System



For fences from
low gardens to
2.2 metres high



The revolutionary new DIY fence system incorporating purpose made pier blocks for:

- ❖ Between wall panels
- ❖ End of walls at gate openings etc
- ❖ Internal & external right angles
- ❖ Do it yourself
- ❖ No bricklaying skills required
- ❖ Attractive & efficient

Australian Owned, Designed and Manufactured.

FENCE STONE

Self Locating Wall System

The Fence Stone Wall System has been developed to:

- ❖ Assist unskilled people build their own front fence or garden fence without the skills of a bricklayer - each block locks to its neighbour on each end as well as top & bottom.
- ❖ Each panel of fence blocks are supported at each end by the purpose made piers.
- ❖ Fence Stone blocks can be used for low fences, through to noise barriers up to 2.2 metres high.

Be sure to read all installation instructions prior to commencement of building your fence

INSTALLATION GUIDE

Step 1: SET OUT, DIG, AND POUR PIER HOLES

Drive timber pegs firm at each end of proposed fence. Set out level marks and step down when necessary. Mark Piers at required distance apart (multiples of 200mm). Dig piers to required depth and width as per the design chart. Prepare vertical steel in pier holes and pour concrete into pier holes. Concrete foundation should be finished about 50-100mm below ground level.



Step 2: PREPARE BASE FOR WALLS

Prepare foundations for fence panels between piers with 75mm on compacted road base at the same finished level as the pier foundations.



Step 3: PLACING FIRST BLOCKS

Place first course of pier blocks to a level line on a 20mm bed of mortar ensuring the channel for steel reo bar is at the top of the pier blocks. Lay the first course of panel blocks to a string line and level on a bed of sand or metal dust on top of the road base foundation. Ensure that the panel blocks are laid with the key down and the channel for steel reo bar at the top of the block. Panel blocks come mixed of channel and non-channel – be sure to separate sufficient channel type for use on the courses where steel reo bar is required. The non-channel type can be laid elsewhere in the panel.



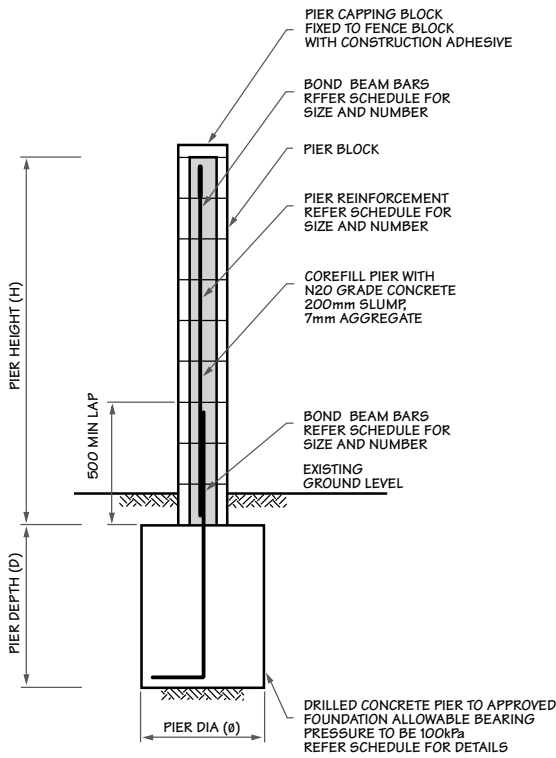
Step 4: PLACING STEEL AND CONCRETE

Place steel reo bar (as per design charts) in the channels horizontally ensuring it carries through to the next panel across piers. Place concrete using a shovel or improvised scoop ensuring it is not spilt onto face of blocks. Concrete mix should be N20 grade, 200mm slump with no larger than 7mm aggregate. Do not use pre-mixed bags of concrete as there is no way of knowing the aggregate size. Do not use rapid set concrete. Concrete can be easily made onsite using a mixture of: 1 part General Portland Cement, 3 parts aggregate, 4 parts river sand and water added to the consistency of a thick pumpkin soup.

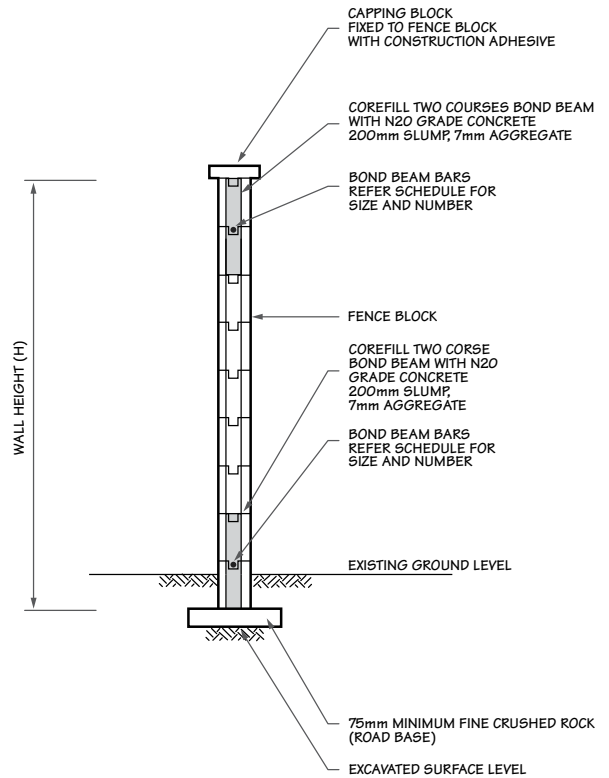


TYPICAL DETAILS

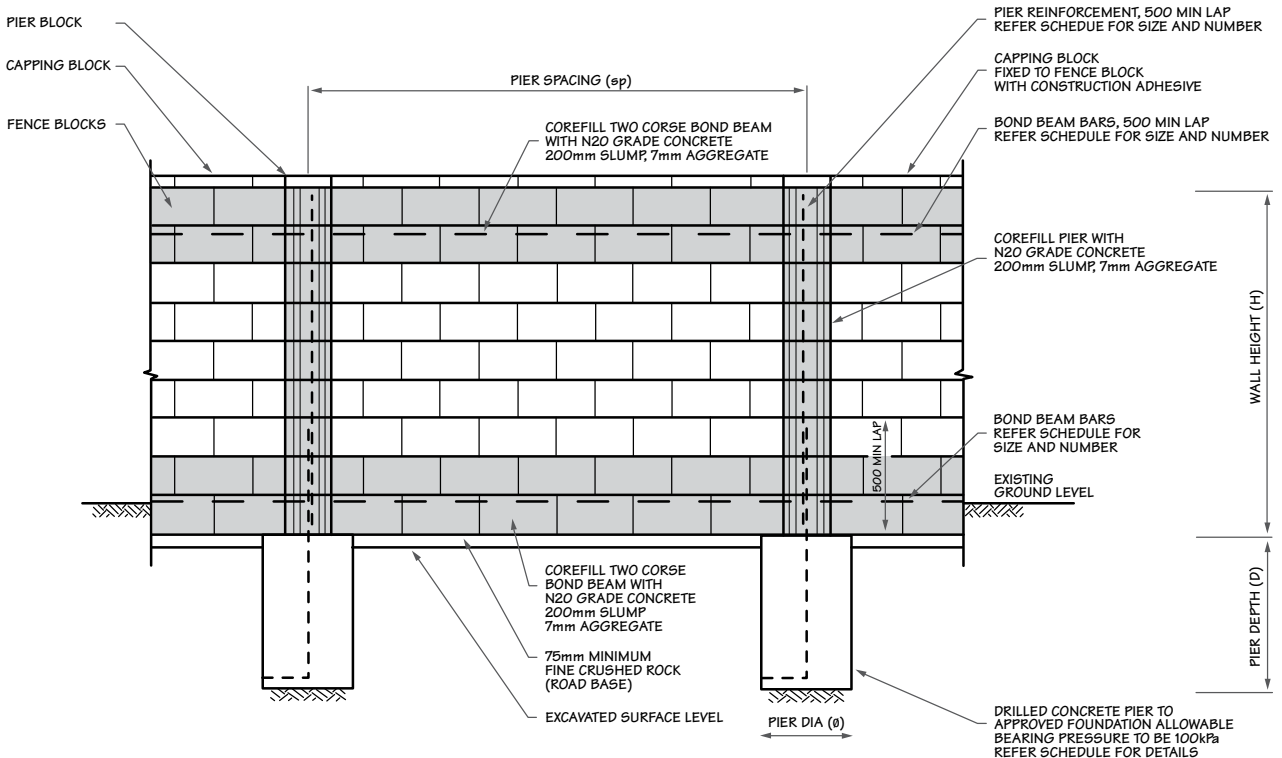
Typical Fence Pier Section



Typical Fence Block Section



Typical Fence Elevation



ENGINEERING NOTES

1. The details below are a guideline only. The design below applies to domestic fences under 1.8m in height. For fences that exceed this and commercial and infrastructure projects, obtain site specific engineering design by a professional engineer.

2. Wind Loading

The fence has been designed for the following wind loading in accordance with AS 1170.2: 2002 Structural Design Actions part 2: Wind Actions

- Wind Region A
e.g. TAS, VIC, ACT, NSW, SA
- Terrain Category 2.5 e.g. Developing outer urban terrain adjacent open terrain
- Regional Wind Speed VR = 111 m/s

3. Foundation Material

- Foundation material to be firm clay or dense sand with 100kg allowable bearing pressure.



Step 5: BUILD THE FENCE

Using mason bond between pier block courses, build the piers up as the panels are built. (Tile wedges can assist in keeping piers plum and level) Fill piers with concrete after every 4th course and extend vertical steel bars to new height. Use the same concrete mix as described in step 4.



Step 6: STIFFENING/BOND BEAM

At the second to top course (or at 1 metre centres for walls over 1400mm high) block off hollow cores in block below reinforcing bar to prevent concrete filling entire fence. Fill 2 courses (with reinforcing bar between) with the same block fill concrete mix described in step 4.



Step 7: CAPPING

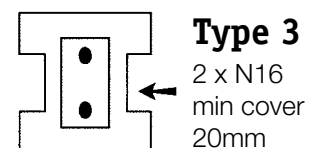
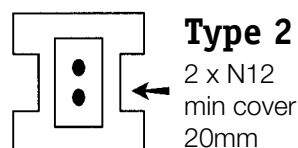
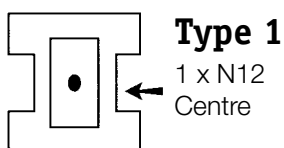
Place purpose made capping on wall and your selected pier cap to piers using mason bond. Ensure caps are weighed down to prevent upward expansion until set.



DESIGN CHARTS

Fence height from base to top panel	Span of panels between pier blocks	Footing pier depths	Pier type see below	Pier diameter	Bond & stiffening beams
1 metre	3 metres	0.7 metre	1	.25	1 x N12 top only
1.4 metres	2.8 metres	0.8 metre	2	.25	1 x N12 top only
1.8 metres	2.6 metres	1.0 metre	3	.3	1 x N16 bottom 1 x N16 top
2.2 metres	2.4 metres	1.2 metres	3	.45	1 x N16 top 1 x N12 centre 1 x N16 bottom

Pier Reinforcement Construction Types



FENCE STONE

Self Locating Wall System

Components used to build a fence



12101
Full Block
400 x 200 x 120mm
(Face Finished Size)
12.5 per m²
135 per pallet



12103
Half Block
200 x 200 x 120mm
25 per m²



1206
Wall Panel Capping
200 x 160 x 60mm
420 per pallet
5 per lm



25-80
Pier Cap
240 x 240 x 80mm



2503 EP
End Pier Block
240 x 240 x 200mm
20 per m²
64 per pallet



2503 SP
Straight Pier Block
240 x 240 x 200mm
20 per m²
64 per pallet



2503 CP
Corner Pier Block
240 x 240 x 200mm
20 per m²
64 per pallet



Appin Stone



Charcoal

Colours displayed in this brochure are to be used as a guide only. Colours are as close as printing process will allow. Displays in stores may vary to actual colour due to batch variation. Obtain samples from Baines Masonry for current batch colour. Care should be taken to order sufficient product to complete job at one time to avoid batch variation. Surplus blocks not returnable. No claims after 7 days or once products have been incorporated in construction.

CHECK WITH YOUR LOCAL COUNCIL TO ENSURE ALL LOCAL BUILDING CODES ARE COMPLIED WITH



BAINES MASONRY

900 Wilton Rd, (PO Box 89) Appin 2560

Tel: 02 4631 1383

Fax: 02 4631 1402

Email: info@bainesmasonry.com.au

Web: www.bainesmasonry.com.au

FEN-BMB1

"Fence Stone" is a Registered Trademark of Baines Masonry and is used under licence.